## QC ABSTRACT

**NAME OF WORK:** Improvements to Roads & Drains of Byregowda Layout in Ward No.07 Byatarayanapura.

| SL NO | Item Of Work | Name of Test | Frequency of Test/Quantity | Executed Quantity | Number of Tests Required | Number of Tests Conducted |
|---|---|---|---|---|---|---|
| | | **Materials** | | | | |
| 1 | Cement | Fineness by dry sieving | One Test | | 1 | 1 |
| | | Finess by Air permeablity method | One Test | | 1 | 1 |
| | | Density | One Test | | 1 | 1 |
| | | Standard Consistency | One Test | | 1 | 1 |
| | | Initial Setting time | One Test | | 1 | 1 |
| | | Final Setting time | One Test | | 1 | 1 |
| | | Soundness (Le Chatelier's Method) | One Test | | 1 | 1 |
| | | Compressive Strength | One Test | | 1 | 1 |
| 2 | Coarse aggregate(40 mm down size) | SIEVE ANALYSIS | One Test | | 1 | 1 |
| | | Flakiness Index | One Test | | 1 | 1 |
| | | Elongation Index | One Test | | 1 | 1 |
| | | Specific Gravity | One Test | | 1 | 1 |
| | | Bulk Density(Loose) | One Test | | 1 | 1 |
| | | Bulk Density(Compacted) | One Test | | 1 | 1 |
| | | Water Absorption | One Test | | 1 | 1 |
| 3 | Coarse aggregate(20 mm down size) | SIEVE ANALYSIS | One Test | | 1 | 1 |
| | | Flakiness Index | One Test | | 1 | 1 |
| | | Elongation Index | One Test | | 1 | 1 |
| | | Specific Gravity | One Test | | 1 | 1 |
| | | Bulk Density(Loose) | One Test | | 1 | 1 |
| | | Bulk Density(Compacted) | One Test | | 1 | 1 |
| | | Water Absorption | One Test | | 1 | 1 |
| | | Aggregate crushing Value | One Test | | 1 | 1 |
| | | Aggregate Impact Value | One Test | | 1 | 1 |
| 4 | Fine aggregate | SIEVE ANALYSIS | One Test | | 1 | 1 |
| | | Water Absorption | One Test | | 1 | 1 |
| | | Specific Gravity | One Test | | 1 | 1 |
| | | Material finer than 75 micron | One Test | | 1 | 1 |
| 5 | Steel | Bend test | One Test | | 1 | 1 |
| | | Tensile Test | One Test | | 1 | 1 |
| | | Yield Test | One Test | | 1 | 1 |
| | | ReBend test | One Test | | 1 | 1 |
| 6 | RCC(M15) | Compressive Strength(7days and 28days) | 5 set /51-100 cum | 77.22 | 10 | 10 |
| 7 | KERB | Core Compressive strength | One Test | | 1 | 1 |
| | | Corrected Cylinder Compressive strength | One Test | | 1 | 1 |
| | | Equivalent Cube Compressive strength | One Test | | 1 | 1 |
| 8 | Precast (100mm) | Core Compressive Strength | One Test | | 1 | 1 |
| | | Corrected Cylinder Compressive Strength | One Test | | 1 | 1 |
| | | Equivalent Cube Compressive Strength | One Test | | 1 | 1 |

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## TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

| | | |
|---|---|---|
| **Lab ID** | : | **CP-2020-11-07-09** **Date: 20-08-20** |
| **Customer** | : | Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore. |
| **Address** | : | Kodigehalli Sub Division, BBMP, Bangalore. |
| **Project Name** | : | Improvements to Roads & Drains of Byregowda Layout in Ward No.07 Byatarayanapura. |
| **Agency** | : | M/s Sri. CHANNAKESHAWA ENTERPRISES, Prop.Kiran Gowda D, No:882, 2nd Floor, Monika Nilaya, 13th Cross, Havanoor, Extn, Nagasandra Post, Bangalore-560073 |
| **Customer's Reference** | : | BBMP/EE/BTP/WO/73/2020-21 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 17-08-20 |
| **Sample Type** | : | Birla Super 53grade |
| **Reference to BIS codes** | : | IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,<br>IS 4031 (Part 1,2 3,4,5, 6,11):1988<br>IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4<br>IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5<br>IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6<br>IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5<br>IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5<br>IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6 |
| **Date of test** | : | 18-08-20 |
| **Environmental Conditions during test** | : | Temperature: 26°C<br>Humidity: 72% |

| Sl.No. | Physical properties | Results | Requirement as per IS 12269: 2013 |
|---|---|---|---|
| 1 | Fineness by dry sieving (%) | 2.2 | – |
| 2 | Finess by Air permeablity method ($m^2$/kg,Min) | 249.5 | 225$m^2$/kg, Min |
| 3 | Density (gm/cc) | 3.11 | – |
| 4 | Standard Consistency (%) | 27.5% | Not specified |
| 5 | Initial Setting time | 170 minutes | Not less than 30 minutes |
| 6 | Final Setting time | 260 minutes | Not more than 600 minutes |
| 7 | Soundness (Le Chatelier's Method) | 1.5mm | Not more than 10 mm |

* The results obtained are satisfactory as per standard requirements.

**Note:**

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

Any correction in the report will make this report invalid

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Samples will be disposed after 90 days from the date of issue of test certificate

**FOR CIVIL Pro.**

CIVIL Pro Sig..... Date..... BANGALORE

**R RUDRAPRASAD**
Authorized Signatory
**Technical Manager**

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560092

AE(NS)



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## TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

| | | |
|---|---|---|
| **Lab ID** | : | **CP-2020-11-07-09** **Date: 15-09-20** |
| **Customer** | : | Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore. |
| **Address** | : | Kodigehalli Sub Division, BBMP, Bangalore. |
| **Project Name** | : | Improvements to Roads & Drains of Byregowda Layout in Ward No.07 Byatarayanapura. |
| **Agency** | : | M/s Sri. CHANNAKESHAWA ENTERPRISES, Prop.Kiran Gowda D, No:882, 2nd Floor, Monika Nilaya, 13th Cross, Havanoor, Extn, Nagasandra Post, Bangalore-560073 |
| **Customer's Reference** | : | BBMP/EE/BTP/WO/73/2020-21 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 17-08-20 |
| **Sample Type** | : | Birla Super 53grade |
| **Reference to BIS codes** | : | IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,<br>IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5<br>IS 4031 Part 6, Determination of Compressive Strength, Clause 6 |
| **Date of test** | : | 18-08-20 |
| **Environmental Conditions during test** | : | Temperature: 26°C<br>Humidity: 72% |

**Compressive Strength**

| Sl.No. | Physical properties | Results | Requirement as per IS 12269: 2013 |
|---|---|---|---|
| 1 | 3 Days | 28.5N/mm$^2$ | Not less than 27 N/mm$^2$ |
| 2 | 7 Days | 39.0N/mm$^2$ | Not less than 37 N/mm$^2$ |
| 3 | 28 Days | 58.5N/mm$^2$ | Not less than 53 N/mm$^2$ |

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## TEST REPORT ON COARSE AGGREGATES

| | | |
|---|---|---|
| **Lab ID** | : | **CP-2020-11-07-09** **Date: 20-08-20** |
| **Customer** | : | Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore. |
| **Address** | : | Kodigehalli Sub Division, BBMP, Bangalore. |
| **Project Name** | : | Improvements to Roads & Drains of Byregowda Layout in Ward No.07 Byatarayanapura. |
| **Agency** | : | M/s Sri. CHANNAKESHAWA ENTERPRISES, Prop.Kiran Gowda D, No:882, 2nd Floor, Monika Nilaya, 13th Cross, Havanoor, Extn, Nagasandra Post, Bangalore-560073 |
| **Customer's Reference** | : | BBMP/EE/BTP/WO/73/2020-21 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample condition** | : | Satisfactory |
| **Date of Receipt** | : | 17-08-20 |
| **Sample Type** | : | 40mm down size coarse aggregate |
| **Reference to BIS codes** | : | IS: 383:2016 (Specification for Coarse and fine Aggregates )<br>IS: 2386 :1963(Part - 1,3,4) RA2011<br>IS 2386 Part 1: Particle Size and Shape<br>IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption<br>IS 2386 Part 4: Mechanical Properties |
| **Date of test** | : | 17-08-20 |

**SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:**

**Total weight taken : 15000 grams**

| Sample No. | Sieve No. | Weight Retained in gms | Cumulative Weight Retained in gms | % Cumulative Weight Retained | % Passing | Required as per IS 383:2016 |
|---|---|---|---|---|---|---|
| 1 | 80 mm | 0 | 0 | 0.0 | 100 | 100 |
| 2 | 40 mm | 423 | 423 | 2.8 | 97.2 | 90-100 |
| 3 | 20 mm | 5852 | 6275 | 41.8 | 58.2 | 30-70 |
| 4 | 10 mm | 4232 | 10507 | 70.0 | 30.0 | 10-35 |
| 5 | 4.75 mm | 4225 | 14732 | 98.2 | 1.8 | 0-5 |
| 6 | Pan | 268 | 15000 | 100.0 | 0 | --- |



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## TEST REPORT ON COARSE AGGREGATES

**Lab ID** : **CP-2020-11-07-09** **Date: 20-08-20**

**PHYSICAL PROPERTIES**

| Sl.no | Tests | Result | Requirements as per IS:383-2016 |
|---|---|---|---|
| 1 | Flakiness Index(%) | 12.3 | Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate |
| 2 | Elongation Index(%) | 11.5 | |
| 3 | Specific Gravity | 2.68 | – |
| 4 | Bulk Density(Loose) (Kg/l) | 1.56 | – |
| 5 | Bulk Density(Compacted) (Kg/l) | 1.59 | – |
| 6 | Water Absorption(%) | 0.21 | – |

* The results obtained are satisfactory as per standard requirements.

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CIVIL Pro Sig. Date. BANGALORE

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Authorized Signatory
**Technical Manager**


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## TEST REPORT ON COARSE AGGREGATES

**Lab ID** : **CP-2020-11-07-09** **Date: 19-08-20**

### PHYSICAL PROPERTIES

| Sl.no | Tests | Result | Requirements as per IS:383-2016 |
|---|---|---|---|
| 1 | Flakiness Index(%) | 12.2 | Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate |
| 2 | Elongation Index(%) | 11.6 | |
| 3 | Specific Gravity | 2.69 | – |
| 4 | Bulk Density(Loose) (Kg/l) | 1.52 | – |
| 5 | Bulk Density(Compacted) (Kg/l) | 1.54 | – |
| 6 | Water Absorption(%) | 0.27 | – |
| 7 | Aggregate crushing Value(%) | 23.2 | Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface. |
| 8 | Aggregate Impact Value(%) | 22.7 | 30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface. |

* The results obtained are satisfactory as per standard requirements.

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# TEST REPORT OF FINE AGGREGATE

**Lab ID** : CP-2020-11-07-09 **Date: 19-08-20**

**Customer** : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

**Address** : Kodigehalli Sub Division, BBMP, Bangalore.

**Project Name** : Improvements to Roads & Drains of Byregowda Layout in Ward No.07 Byatarayanapura.

**Agency** : M/s Sri. CHANNAKESHAWA ENTERPRISES, Prop.Kiran Gowda D, No:882, 2nd Floor, Monika Nilaya, 13th Cross, Havanoor, Extn, Nagasandra Post, Bangalore-560073

**Customer's Reference** : BBMP/EE/BTP/WO/73/2020-21

**Source of Sample** : Sample supplied by Agency

**Sample Condition** : Satisfactory

**Date of Receipt** : 17-08-20

**Sample Type** : Fine Aggregate

**Reference to BIS codes** : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

**Date of test** : 17-08-20

**Total weight taken** : 1000 grams

| Sl.no | Sieve Size | Weight Retained (gms) | Cumulative Weight Retained (gms) | % Cumulative Weight Retained | % Passing | Requirement as per IS 383:2016 | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Grading Zone I | Grading Zone II | Grading Zone III | Grading Zone IV |
| 1 | 10 mm | 0 | 0 | 0.0 | 100.0 | 100 | 100 | 100 | 100 |
| 2 | 4.75 mm | 27 | 27 | 2.7 | 97.3 | 90-100 | 90-100 | 90-100 | 95-100 |
| 3 | 2.36 mm | 55 | 82 | 8.2 | 91.8 | 60-95 | 75-100 | 85-100 | 95-100 |
| 4 | 1.18 mm | 239 | 321 | 32.1 | 67.9 | 30-70 | 55-90 | 75-100 | 90-100 |
| 5 | 600 micron | 205 | 526 | 52.6 | 47.4 | 15-34 | 35-59 | 60-79 | 80-100 |
| 6 | 300 micron | 203 | 729 | 72.9 | 27.1 | 5-20 | 8-30 | 12-40 | 15-50 |
| 7 | 150 micron | 191 | 920 | 92.0 | 8.0 | 0-10 | 0-10 | 0-10 | 0-15 |
| 8 | Pan | 80 | 1000 | 100.0 | 0.0 | --- | --- | --- | --- |

**Result :The tested Sample Conforms to Grading Zone II**



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# TEST REPORT OF FINE AGGREGATE

**Lab ID** : **CP-2020-11-07-09** **Date: 19-08-20**

## PHYSICAL PROPERTIES

| Sl.no | Tests | Result | Requirements as per IS 383:2016 |
|---|---|---|---|
| 1 | Water Absorption(%) | 1.5 | – |
| 2 | Specific Gravity | 2.59 | – |
| 3 | Material finer than 75 micron(%) | 6.9 | Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10% |

* The results obtained are satisfactory as per standard requirements.

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AE(L2)

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Authorized Signatory
**Technical Manager**


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## TEST RESULTS OF STEEL

**Lab ID** : CP-2020-11-07-09 **Date: 24-08-20**

**Customer** : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

**Address** : Kodigehalli Sub Division, BBMP, Bangalore.

**Project Name** : Improvements to Roads & Drains of Byregowda Layout in Ward No.07 Byatarayanapura.

**Agency** : M/s Sri. CHANNAKESHAWA ENTERPRISES, Prop.Kiran Gowda D, No:882, 2nd Floor, Monika Nilaya, 13th Cross, Havanoor, Extn, Nagasandra Post, Bangalore-560073

**Customer's Reference** : BBMP/EE/BTP/WO/73/2020-21

**Source of Sample** : Sample supplied by Agency

**Sample Condition** : Satisfactory

**Date of Receipt** : 21-08-20

**Sample Type** : Sunvik

**Reference to BIS codes** : IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.

**Date of test:** : 21-08-20

| Sl.No | Identification of sample | Grade of the sample | Diameter of the steel bar | Weight of the sample | Yield stress | Tensile strength | Elongation | Bend test | Rebend test |
|---|---|---|---|---|---|---|---|---|---|
| | | | (mm) | (kg/m) | (N/mm2) | (N/mm2) | (%) | | |
| 1 | Sunvik | Fe500 | 8 | 0.391 | 512 | 652 | 20.0% | Satisfactory | Satisfactory |
| 2 | Sunvik | Fe500 | 10 | 0.616 | 528 | 672 | 20.0% | Satisfactory | Satisfactory |
| 3 | Sunvik | Fe500 | 12 | 0.888 | 544 | 668 | 20.0% | Satisfactory | Satisfactory |

* The results obtained are satisfactory as per standard requirements.

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**Technical Manager**

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# TEST REPORT OF CEMENT CONCRETE KERB STONE

**Lab ID** : **CP-2020-11-07-09** **Date: 05-09-20**

**Customer** : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

**Address** : Kodigehalli Sub Division, BBMP, Bangalore.

**Project Name** : Improvements to Roads & Drains of Byregowda Layout in Ward No.07 Byatarayanapura.

**Agency** : M/s Sri. CHANNAKESHAWA ENTERPRISES, Prop.Kiran Gowda D, No:882, 2nd Floor, Monika Nilaya, 13th Cross, Havanoor, Extn, Nagasandra Post, Bangalore-560073

**Customer's Reference** : BBMP/EE/BTP/WO/73/2020-21

**Source of Sample** : Sample supplied by Agency

**Sample Condition** : Satisfactory

**Date of Receipt** : 01-09-20

**Sample Type /Size** : CC Kerb Stone/ 450*150*500mm

**Reference to BIS codes** : IS: 516 - 1959 Methods of Tests for Strength of Concrete

**Date of test** : 01/09/2020

| Sl. No. | Identification Mark | Diameter of the core | Height of the core | Weight of the core | Area | Failure Load | Core Compressive strength | Corrected Cylinder Compressive strength | Equivalent Cube Compressive strength |
|---|---|---|---|---|---|---|---|---|---|
| | | (mm) | (mm) | Kg | (Sq.mm) | (KN) | (N/mm2 ) | (N/mm2 ) | (N/mm2 ) |
| 1 | A | 76.01 | 150.51 | 2.164 | 4537 | 132.1 | 29.1 | 29.1 | 36.4 |
| 2 | B | 76.03 | 150.49 | 2.193 | 4539 | 132.2 | 29.1 | 29.1 | 36.4 |
| 3 | C | 75.01 | 150.50 | 2.115 | 4418 | 132.1 | 29.9 | 29.9 | 37.4 |

* The results obtained are satisfactory as per standard requirements.

**Note:**

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# TEST REPORT OF PRECAST COVER SLAB

**Lab ID** : **CP-2020-11-07-09** **Date: 02-09-20**

**Customer** : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

**Address** : Kodigehalli Sub Division, BBMP, Bangalore.

**Project Name** : Improvements to Roads & Drains of Byregowda Layout in Ward No.07 Byatarayanapura.

**Agency** : M/s Sri. CHANNAKESHAWA ENTERPRISES, Prop.Kiran Gowda D, No:882, 2nd Floor, Monika Nilaya, 13th Cross, Havanoor, Extn, Nagasandra Post, Bangalore-560073

**Customer's Reference** : BBMP/EE/BTP/WO/73/2020-21

**Source of Sample** : Sample supplied by Agency

**Sample Condition** : Satisfactory

**Date of Receipt** : 29-08-20

**Sample Type /Size** : Precast Cover Slab (100mm)

**Reference to BIS codes** : IS: 516 - 1959 Methods of Tests for Strength of Concrete

**Date of test** : 29/08/2020

| Sl. No. | Identification Mark | Diameter of the core | Height of the core | Weight of the core | Area | Failure Load | Core Compressive strength | Corrected Cylinder Compressive strength | Equivalent Cube Compressive strength |
|---|---|---|---|---|---|---|---|---|---|
| | | (mm) | (mm) | (kg) | (Sq.mm) | (KN) | ($N/mm^2$) | ($N/mm^2$) | ($N/mm^2$) |
| 1 | Cover Slab-1 | 75.51 | 100.48 | 1.116 | 4477 | 80.9 | 18.1 | 16.8 | 21.0 |
| 2 | Cover Slab-2 | 75.49 | 100.52 | 1.122 | 4475 | 82.3 | 18.4 | 17.1 | 21.4 |
| 3 | Cover Slab-3 | 75.50 | 100.51 | 1.118 | 4476 | 81.5 | 18.2 | 16.9 | 21.2 |

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# TEST REPORT OF CEMENT CONCRETE CUBES

**Lab ID** : **CP-2020-11-07-09** **Date: 01/09/2020**

**Customer** : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

**Address** : Kodigehalli Sub Division, BBMP, Bangalore.

**Project Name** : Improvements to Roads & Drains of Byregowda Layout in Ward No.07 Byatarayanapura.

**Agency** : M/s Sri. CHANNAKESHAWA ENTERPRISES, Prop.Kiran Gowda D, No:882, 2nd Floor, Monika Nilaya, 13th Cross, Havanoor, Extn, Nagasandra Post, Bangalore-560073

**Customer's Reference** : BBMP/EE/BTP/WO/73/2020-21

**Source of Sample** : Sample supplied by Agency

**Sample Condition** : Satisfactory

**Date of Receipt** : 27-08-20

**Customer ID** : Drain Bottom Slab Concrete

**Sample Type /Size** : 150X150X150 mm

**Sample grade/Age** : M15 / 7 Days Compressive Strength

**Reference to BIS codes** : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

**Date of test** : 01/09/2020

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Drain Bottom Slab Concrete | M15 | 25/08/2020 | 01/09/2020 | 149.64 X 149.85 X 149.25 | 22423 | **8.856** | 280.7 | 12.5 | 12.5 |
| 2 | Drain Bottom Slab Concrete | M15 | 25/08/2020 | 01/09/2020 | 149.97 X 151.13 X 150.57 | 22666 | **8.814** | 281.4 | 12.4 | |
| 3 | Drain Bottom Slab Concrete | M15 | 25/08/2020 | 01/09/2020 | 151.61 X 151.87 X 150.05 | 23025 | **8.269** | 286.8 | 12.5 | |

* The results obtained are satisfactory as per standard requirements.

**Note:**

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FOR CIVIL Pro.

CIVIL Pro Sig..... Date..... BANGALORE

R RUDRAPRASAD
Authorized Signatory
Technical Manager



****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL |
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Format No: CP/TF/01

# TEST REPORT OF CEMENT CONCRETE CUBES

**Lab ID** : **CP-2020-11-07-09** **Date: 22/09/2020**

**Customer** : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

**Address** : Kodigehalli Sub Division, BBMP, Bangalore.

**Project Name** : Improvements to Roads & Drains of Byregowda Layout in Ward No.07 Byatarayanapura.

**Agency** : M/s Sri. CHANNAKESHAWA ENTERPRISES, Prop.Kiran Gowda D, No:882, 2nd Floor, Monika Nilaya, 13th Cross, Havanoor, Extn, Nagasandra Post, Bangalore-560073

**Customer's Reference** : BBMP/EE/BTP/WO/73/2020-21

**Source of Sample** : Sample supplied by Agency

**Sample Condition** : Satisfactory

**Date of Receipt** : 27-08-20

**Customer ID** : Drain Bottom Slab Concrete

**Sample Type /Size** : 150X150X150 mm

**Sample grade/Age** : M15 / 28 Days Compressive Strength

**Reference to BIS codes** : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

**Date of test** : 22/09/2020

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Drain Bottom Slab Concrete | M15 | 25/08/2020 | 22/09/2020 | 150.93 X 149.22 X 150.48 | 22522 | 8.422 | 396.2 | 17.6 | 17.6 |
| 2 | Drain Bottom Slab Concrete | M15 | 25/08/2020 | 22/09/2020 | 151.98 X 149.72 X 149.79 | 22754 | 8.953 | 399.9 | 17.6 | |
| 3 | Drain Bottom Slab Concrete | M15 | 25/08/2020 | 22/09/2020 | 149.27 X 150.42 X 151.89 | 22453 | 8.403 | 396.6 | 17.7 | |

* The results obtained are satisfactory as per standard requirements.

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Ashly. N.D
AE(W)

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore-560092

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.
R RUDRAPRASAD
Authorized Signatory
Technical Manager


****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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Format No: CP/TF/01

# TEST REPORT OF CEMENT CONCRETE CUBES

**Lab ID** : **CP-2020-11-07-09** **Date: 01/09/2020**

**Customer** : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

**Address** : Kodigehalli Sub Division, BBMP, Bangalore.

**Project Name** : Improvements to Roads & Drains of Byregowda Layout in Ward No.07 Byatarayanapura.

**Agency** : M/s Sri. CHANNAKESHAWA ENTERPRISES, Prop.Kiran Gowda D, No:882, 2nd Floor, Monika Nilaya, 13th Cross, Havanoor, Extn, Nagasandra Post, Bangalore-560073

**Customer's Reference** : BBMP/EE/BTP/WO/73/2020-21

**Source of Sample** : Sample supplied by Agency

**Sample Condition** : Satisfactory

**Date of Receipt** : 27-08-20

**Customer ID** : Drain Bottom Slab Concrete

**Sample Type /Size** : 150X150X150 mm

**Sample grade/Age** : M15 / 7 Days Compressive Strength

**Reference to BIS codes** : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

**Date of test** : 01/09/2020

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Drain Bottom Slab Concrete | M15 | 25/08/2020 | 01/09/2020 | 149.64 X 149.19 X 149.21 | 22325 | **8.856** | 269.9 | 12.1 | 12.1 |
| 2 | Drain Bottom Slab Concrete | M15 | 25/08/2020 | 01/09/2020 | 149.52 X 150.35 X 149.77 | 22481 | **8.814** | 274.6 | 12.2 | |
| 3 | Drain Bottom Slab Concrete | M15 | 25/08/2020 | 01/09/2020 | 149.07 X 150.95 X 150.07 | 22501 | **8.269** | 271.4 | 12.1 | |

* The results obtained are satisfactory as per standard requirements.

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AE(W27)

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**R RUDRAPRASAD**
Authorized Signatory
**Technical Manager**


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# TEST REPORT OF CEMENT CONCRETE CUBES

**Lab ID** : **CP-2020-11-07-09** **Date: 22/09/2020**

**Customer** : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

**Address** : Kodigehalli Sub Division, BBMP, Bangalore.

**Project Name** : Improvements to Roads & Drains of Byregowda Layout in Ward No.07 Byatarayanapura.

**Agency** : M/s Sri. CHANNAKESHAWA ENTERPRISES, Prop.Kiran Gowda D, No:882, 2nd Floor, Monika Nilaya, 13th Cross, Havanoor, Extn, Nagasandra Post, Bangalore-560073

**Customer's Reference** : BBMP/EE/BTP/WO/73/2020-21

**Source of Sample** : Sample supplied by Agency

**Sample Condition** : Satisfactory

**Date of Receipt** : 27-08-20

**Customer ID** : Drain Bottom Slab Concrete

**Sample Type /Size** : 150X150X150 mm

**Sample grade/Age** : M15 / 28 Days Compressive Strength

**Reference to BIS codes** : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

**Date of test** : 22/09/2020

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Drain Bottom Slab Concrete | M15 | 25/08/2020 | 22/09/2020 | 149.27 X 150.32 X 149.02 | 22438 | **8.422** | 401.8 | 17.9 | 17.6 |
| 2 | Drain Bottom Slab Concrete | M15 | 25/08/2020 | 22/09/2020 | 151.85 X 151.41 X 151.36 | 22993 | **8.953** | 393.6 | 17.1 | |
| 3 | Drain Bottom Slab Concrete | M15 | 25/08/2020 | 22/09/2020 | 150.89 X 151.88 X 149.96 | 22917 | **8.403** | 410.7 | 17.9 | |

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AE(NS)

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike

CIVIL Pro Sig. Date. BANGALORE

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Authorized Signatory
Technical Manager


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# TEST REPORT OF CEMENT CONCRETE CUBES

**Lab ID** : **CP-2020-11-07-09** **Date: 04/09/2020**

**Customer** : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

**Address** : Kodigehalli Sub Division, BBMP, Bangalore.

**Project Name** : Improvements to Roads & Drains of Byregowda Layout in Ward No.07 Byatarayanapura.

**Agency** : M/s Sri. CHANNAKESHAWA ENTERPRISES, Prop.Kiran Gowda D, No:882, 2nd Floor, Monika Nilaya, 13th Cross, Havanoor, Extn, Nagasandra Post, Bangalore-560073

**Customer's Reference** : BBMP/EE/BTP/WO/73/2020-21

**Source of Sample** : Sample supplied by Agency

**Sample Condition** : Satisfactory

**Date of Receipt** : 31-08-20

**Customer ID** : Drain Side Wall Concrete

**Sample Type /Size** : 150X150X150 mm

**Sample grade/Age** : M15 / 7 Days Compressive Strength

**Reference to BIS codes** : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

**Date of test** : 04/09/2020

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Drain Side Wall Concrete | M15 | 28/08/2020 | 04/09/2020 | 149.51 X 151.76 X 150.39 | 22689 | **8.856** | 292.9 | 12.9 | 12.6 |
| 2 | Drain Side Wall Concrete | M15 | 28/08/2020 | 04/09/2020 | 150.59 X 150.45 X 149.56 | 22656 | **8.814** | 286.2 | 12.6 | |
| 3 | Drain Side Wall Concrete | M15 | 28/08/2020 | 04/09/2020 | 149.37 X 151.01 X 149.74 | 22556 | **8.269** | 275.1 | 12.2 | |

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AE(W)D

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike

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Technical Manager


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# TEST REPORT OF CEMENT CONCRETE CUBES

**Lab ID** : **CP-2020-11-07-09** **Date: 25/09/2020**

**Customer** : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

**Address** : Kodigehalli Sub Division, BBMP, Bangalore.

**Project Name** : Improvements to Roads & Drains of Byregowda Layout in Ward No.07 Byatarayanapura.

**Agency** : M/s Sri. CHANNAKESHAWA ENTERPRISES, Prop.Kiran Gowda D, No:882, 2nd Floor, Monika Nilaya, 13th Cross, Havanoor, Extn, Nagasandra Post, Bangalore-560073

**Customer's Reference** : BBMP/EE/BTP/WO/73/2020-21

**Source of Sample** : Sample supplied by Agency

**Sample Condition** : Satisfactory

**Date of Receipt** : 31-08-20

**Customer ID** : Drain Side Wall Concrete

**Sample Type /Size** : 150X150X150 mm

**Sample grade/Age** : M15 / 28 Days Compressive Strength

**Reference to BIS codes** : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

**Date of test** : 25/09/2020

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Drain Side Wall Concrete | M15 | 28/08/2020 | 25/09/2020 | 150.41 X 151.42 X 150.71 | 22774 | **8.422** | 393.8 | 17.3 | 17.4 |
| 2 | Drain Side Wall Concrete | M15 | 28/08/2020 | 25/09/2020 | 150.24 X 150.15 X 149.42 | 22559 | **8.953** | 400.3 | 17.7 | |
| 3 | Drain Side Wall Concrete | M15 | 28/08/2020 | 25/09/2020 | 150.99 X 150.11 X 151.67 | 22666 | **8.403** | 388.8 | 17.2 | |

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Dy Engg. N.D
AE(Adm)

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore-560032

CIVIL Pro
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Date.....
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Authorized Signatory
Technical Manager


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# TEST REPORT OF CEMENT CONCRETE CUBES

**Lab ID** : **CP-2020-11-07-09** **Date: 04/09/2020**

**Customer** : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

**Address** : Kodigehalli Sub Division, BBMP, Bangalore.

**Project Name** : Improvements to Roads & Drains of Byregowda Layout in Ward No.07 Byatarayanapura.

**Agency** : M/s Sri. CHANNAKESHAWA ENTERPRISES, Prop.Kiran Gowda D, No:882, 2nd Floor, Monika Nilaya, 13th Cross, Havanoor, Extn, Nagasandra Post, Bangalore-560073

**Customer's Reference** : BBMP/EE/BTP/WO/73/2020-21

**Source of Sample** : Sample supplied by Agency

**Sample Condition** : Satisfactory

**Date of Receipt** : 31-08-20

**Customer ID** : Drain Side Wall Concrete

**Sample Type /Size** : 150X150X150 mm

**Sample grade/Age** : M15 / 7 Days Compressive Strength

**Reference to BIS codes** : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

**Date of test** : 04/09/2020

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Drain Side Wall Concrete | M15 | 28/08/2020 | 04/09/2020 | 151.63 X 149.88 X 150.73 | 22725 | **8.856** | 294.8 | 13.0 | 12.7 |
| 2 | Drain Side Wall Concrete | M15 | 28/08/2020 | 04/09/2020 | 150.60 X 149.20 X 149.32 | 22468 | **8.814** | 287.0 | 12.8 | |
| 3 | Drain Side Wall Concrete | M15 | 28/08/2020 | 04/09/2020 | 149.60 X 151.73 X 149.50 | 22699 | **8.269** | 282.7 | 12.5 | |

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AE(W2)

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike

CIVIL PRO Sig. Date BANGALORE

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R RUDRAPRASAD
Authorized Signatory
Technical Manager


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# TEST REPORT OF CEMENT CONCRETE CUBES

**Lab ID** : **CP-2020-11-07-09** **Date: 25/09/2020**

**Customer** : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

**Address** : Kodigehalli Sub Division, BBMP, Bangalore.

**Project Name** : Improvements to Roads & Drains of Byregowda Layout in Ward No.07 Byatarayanapura.

**Agency** : M/s Sri. CHANNAKESHAWA ENTERPRISES, Prop.Kiran Gowda D, No:882, 2nd Floor, Monika Nilaya, 13th Cross, Havanoor, Extn, Nagasandra Post, Bangalore-560073

**Customer's Reference** : BBMP/EE/BTP/WO/73/2020-21

**Source of Sample** : Sample supplied by Agency

**Sample Condition** : Satisfactory

**Date of Receipt** : 31-08-20

**Customer ID** : Drain Side Wall Concrete

**Sample Type /Size** : 150X150X150 mm

**Sample grade/Age** : M15 / 28 Days Compressive Strength

**Reference to BIS codes** : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

**Date of test** : 25/09/2020

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Drain Side Wall Concrete | M15 | 28/08/2020 | 25/09/2020 | 149.54 X 149.71 X 149.73 | 22387 | **8.422** | 398.0 | 17.8 | 17.8 |
| 2 | Drain Side Wall Concrete | M15 | 28/08/2020 | 25/09/2020 | 149.60 X 150.62 X 149.08 | 22532 | **8.953** | 405.2 | 18.0 | |
| 3 | Drain Side Wall Concrete | M15 | 28/08/2020 | 25/09/2020 | 151.33 X 151.51 X 151.45 | 22927 | **8.403** | 406.4 | 17.7 | |

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Assistant Executive Engineer
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Bangalore East-562

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Authorized Signatory
Technical Manager


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Format No: CP/TF/01

# TEST REPORT OF CEMENT CONCRETE CUBES

**Lab ID** : **CP-2020-11-07-09** **Date: 04/09/2020**

**Customer** : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

**Address** : Kodigehalli Sub Division, BBMP, Bangalore.

**Project Name** : Improvements to Roads & Drains of Byregowda Layout in Ward No.07 Byatarayanapura.

**Agency** : M/s Sri. CHANNAKESHAWA ENTERPRISES, Prop.Kiran Gowda D, No:882, 2nd Floor, Monika Nilaya, 13th Cross, Havanoor, Extn, Nagasandra Post, Bangalore-560073

**Customer's Reference** : BBMP/EE/BTP/WO/73/2020-21

**Source of Sample** : Sample supplied by Agency

**Sample Condition** : Satisfactory

**Date of Receipt** : 31-08-20

**Customer ID** : Drain Side Wall Concrete

**Sample Type /Size** : 150X150X150 mm

**Sample grade/Age** : M15 / 7 Days Compressive Strength

**Reference to BIS codes** : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

**Date of test** : 04/09/2020

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Drain Side Wall Concrete | M15 | 28/08/2020 | 04/09/2020 | 151.79 X 150.71 X 150.73 | 22876 | **8.856** | 287.7 | 12.6 | 12.5 |
| 2 | Drain Side Wall Concrete | M15 | 28/08/2020 | 04/09/2020 | 151.49 X 151.08 X 151.75 | 22887 | **8.814** | 291.6 | 12.7 | |
| 3 | Drain Side Wall Concrete | M15 | 28/08/2020 | 04/09/2020 | 149.92 X 151.74 X 149.81 | 22749 | **8.269** | 279.2 | 12.3 | |

* The results obtained are satisfactory as per standard requirements.

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AE (HQ)

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore

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****End of Report****

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# TEST REPORT OF CEMENT CONCRETE CUBES

**Lab ID** : **CP-2020-11-07-09** **Date: 25/09/2020**

**Customer** : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

**Address** : Kodigehalli Sub Division, BBMP, Bangalore.

**Project Name** : Improvements to Roads & Drains of Byregowda Layout in Ward No.07 Byatarayanapura.

**Agency** : M/s Sri. CHANNAKESHAWA ENTERPRISES, Prop.Kiran Gowda D, No:882, 2nd Floor, Monika Nilaya, 13th Cross, Havanoor, Extn, Nagasandra Post, Bangalore-560073

**Customer's Reference** : BBMP/EE/BTP/WO/73/2020-21

**Source of Sample** : Sample supplied by Agency

**Sample Condition** : Satisfactory

**Date of Receipt** : 31-08-20

**Customer ID** : Drain Side Wall Concrete

**Sample Type /Size** : 150X150X150 mm

**Sample grade/Age** : M15 / 28 Days Compressive Strength

**Reference to BIS codes** : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

**Date of test** : 25/09/2020

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Drain Side Wall Concrete | M15 | 28/08/2020 | 25/09/2020 | 150.92 X 149.31 X 151.15 | 22535 | **8.422** | 391.6 | 17.4 | 17.5 |
| 2 | Drain Side Wall Concrete | M15 | 28/08/2020 | 25/09/2020 | 149.05 X 149.05 X 149.09 | 22217 | **8.953** | 385.0 | 17.3 | |
| 3 | Drain Side Wall Concrete | M15 | 28/08/2020 | 25/09/2020 | 150.57 X 151.43 X 151.13 | 22801 | **8.403** | 402.5 | 17.7 | |

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**R RUDRAPRASAD**
Authorized Signatory
**Technical Manager**



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